

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-5 (Canceled).

6. (New) A method for manufacturing an organic electro-luminescence panel including:

a transparent substrate having a plurality of first electrode layers each of which is formed on a surface of the transparent substrate and driven by an active element provided for one of a plurality of pixels, and an insulating layer formed on said first electrode layers which insulating layer includes substantially rectangular apertures exposing said first electrode layers for said pixels, respectively;

a hole transfer layer, a hole injection layer, an organic light emitting layer, an electron injection layer, and an electron transfer layer being laminated sequentially on each of said first electrode layers exposed through respective ones of said substantially rectangular apertures for each of said plurality of pixels; and

a second electrode layer being formed on said electron transfer layers over said plurality of pixels in common,

wherein said method comprises the step of:

forming at least one of said hole transfer layer, said hole injection layer, said organic light emitting layer, said electron injection layer and said electron transfer layer for each of said plurality of pixels by vapor deposition of a deposition material through one of mask holes of a multilayer metal mask disposed in close contact with said insulating layer of said transparent substrate; wherein

said multilayer metal mask comprises a magnetic plate including a nickel-iron alloy and a nickel layer thinner than said magnetic plate being electrodeposited on a first surface of said magnetic plate closer to said transparent substrate;

each of said mask holes comprising first mask holes being formed in said nickel layer, and second mask holes being formed in said magnetic plate and each

having a larger area than said first mask holes and being disposed on a second surface of said magnetic plate facing toward a supply source of said deposition material;

said multi-layer metal mask being formed by performing:

a first process of coating said first surface of said thick magnetic plate with a first resist, and then of forming substantially convex shapes of said first resist corresponding to said first mask holes on said first surface by exposing and developing said first resist;

a second process of electrodepositing said nickel on the first surface of said magnetic plate and of forming said nickel layer having said first mask holes by removing said substantially convex shapes of said first resist;

a third process of coating said second surface of said magnetic plate with a second resist, and then of forming a substantially convex shape of said second resist on said second surface by exposing and developing said second resist; and

a fourth process of forming said second mask holes each from said second surface of said magnetic plate to said first mask hole by etching said magnetic plate from a region of said second surface where said substantially convex shape of said second resist is not formed; and

wherein said second mask holes are substantially funnel-shaped so that an inner wall thereof is inclined at an angle more than 30° and less than 85° with respect to the second surface of said magnetic plate.

7. (New) A method for manufacturing an organic electroluminescence panel according to claim 6, wherein

said first mask holes have longitudinal and crosswise sizes corresponding to said pixels formed on said transparent substrate, respectively, and

each of said second mask holes facing said supply source of said deposition material has a longitudinal size including a plurality of said first mask hole) therein.

8. (New) A method for manufacturing an organic electroluminescence panel according to claim 6, wherein
- said first mask holes have longitudinal and crosswise sizes corresponding to said pixels formed on said transparent substrate respectively, and
- a curvature radius of each corner portion of said first mask holes is not larger than 5 micrometers.
9. (New) A method for manufacturing an organic electroluminescence panel according to claim 6, wherein said nickel-iron-alloy is a 42% nickel-iron alloy.
10. (New) A method for manufacturing an organic electroluminescence panel according to claim 7, wherein said nickel-iron-alloy is a 42% nickel-iron alloy.
11. (New) A method for manufacturing an organic electroluminescence panel according to claim 8, wherein said nickel-iron-alloy is a 42% nickel-iron alloy.